## IN THE CIRCUIT COURT OHIO COUNTY, WEST VIRGINIA

IN RE: TOBACCO LITIGATION

CIVIL ACTION NO.

(MEDICAL MONITORING CASES)

00-C-6000

(Judge Arthur Recht Judge Tod Kaufman)

DEPOSITION OF THEODORE A. WILSON TAKEN BY MICHAEL GRUENLOH, ESQ. ON BEHALF OF THE PLAINTIFFS APRIL 21, 2000

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REPORTED BY SHERRIE L. MERZ CERTIFIED SHORTHAND REPORTER REGISTERED DIPLOMATE REPORTER

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(Judge Arthur Recht Judge Tod Kaufman)

DEFISITION OF THEODORE A. WILSON, produced, sworn and examined on the 21st day of April, 2000, at the offices of hompson Coburn, One Mercantile Center, Suite 3300, in the City of St. Louis, State of Missouri, before Sie L. Merz, Certified Shorthand Reporter, Registered Diplomate Reporter and Notary Public, in a certain cause now pending in the Circuit Court of the Ohio County, West Virginia, between CHRISTA BLANKENSHIP, et al., PLAINTIFFS, and PHILIP MORRIS, INC., et al., DEFENDANTS.

2

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10			
11 2	INDEX	Page	
13	Direct Examination by Mr. Gruenloh	5	
15	PLAINTIFF'S EXHIBITS		;
7	1 Wrison affidavit 2 Special executive report	20 42	
8	3 Frank-statement to the public	47	
21			
24			ļ
25			4

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STIPULATION

IT IS HEREBY STIPULATED AND AGREED by and between counsel for the parties that this deposition may be taken by Sherrie L. Merz and afterwards transcribed into print and that signature by the witness is not waived.

THEODORE A. WILSON

of lawful age, being first duly sworn to tell the truth, the whole truth and nothing but the truth, deposes and says on behalf of the Plaintiffs as follows:

DIRECT EXAMINATION

BY MR. NLOH:

please state your name for the record, sir.

Theodore A. Wilson.

Are you a Ph.D.?

I am.

Dr. Wilson, my name is Mike Gruenloh. just a little while ago. I'm going to be taking your deposition today. I'll try to keep it as short as possible and as we agreed with counsel, we're going to try to avoid material that's already been gone over in prior depositions with you. Do you believe that cigarettes cause disease in human beings?

MR. McCONNELL: Objection, scope.

- My personal belief is that they do. Α.
- (By Mr. Gruenloh) Do you believe that Q.

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cigarettes are addictive?

MR. McCONNELL: Objection, scope.

- A. My personal belief is that by my definition of addictive, they are addictive.
- Q. (By Mr. Gruenloh) What is your definition of addictive?

MR. McCONNELL: Objection, scope, answered.

- A. They are habit forming. They engender the need to have, to get additional cigarettes. They engender dependency.
- Q By Mr. Gruenloh) When did you first reach your opinion that cigarettes cause disease in human beings?
- R. McCONNELL: Excuse me. So I don't have to keep interposing objections, can I have running objections any questions regarding his personal opinions bout the addiction of cigarettes?

MR. GRUENLOH: That's fine. As a matter of fact, I m willing to stipulate all objections are preserved for the purposes of the efficacy of the deposition. I'm willing to do that.

 $$\operatorname{MR}$.$  McCONNELL: I think that will help it along.

- A. Would you restate that?
- Q. (By Mr. Gruenloh) When did you first reach

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the opinion that cigarettes are harmful to human beings?

- A. Well, I probably reached that opinion about the time I began smoking which would have been at the age of 15 or 16. I was certainly given strong arguments about that by my mother in particular and others.
- Q. Is it your opinion, Doctor, that when you were 15 when you started smoking that you fully understood all of the health risks that are associated with smoking cigarettes?

MR. McCONNELL: Objection to form.

A would not claim that I understood at that time all the health risks associated with smoking cigarettes, no.

Q By Mr. Gruenloh) Well, when you were 15 did you know that cigarettes cause cancer in human beings?

A when I was 15, I'm not certain I understood what can was so I suppose the answer is no.

Q. When you were 15, did you know that cigarettes cause heart disease?

A. When I was that age, I had been given information that there was such a thing as tobacco heart and I would have correlated that I suppose if I thought seriously about it with heart disease.

Q. When you were 15, did you know that cigarettes caused emphysema?

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	Α.	I'm	almost	60.	Emphysem	na was	not	a term	ı that
was	used	by my	underst	andin	g during	the	time	that I	
woul	ld hav	ve beer	think:	ing ab	out thes	e thi	ngs s	so no,	I
woul	dn't,	, I wou	ıld not	have	thought	of it	as	emphyse	ema.

- Q. Okay. When you were 15, did you know that cigarettes had ammonia in them?
- A. I'm not certain I could recall whether I did or not.
- Q. When you were 15, did you know that cigarettes had turpentine in them?
- A couldn't say whether I had any recollection that they had any turpentine, no.
- Q Do you know today as you sit here today when her time is a poisonous substance?
- A Nicotine in its concentrated form I have been informed a very long time is a poisonous substance, yes.
- When you were 15, did you know that nicotine was a poisonous substance?
- A have a vague recollection of seeing that point made in health texts when I was about that age.
- Q. You saw that nicotine was a poisonous substance in a health text when you were 15 years old?
- A. That is my recollection that I have some recollection, some sense of that.

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Q. Doctor, when you were 15 years old, did you know that the relapse rates for people who are trying to quit smoking are similar to the relapse rates for people who are trying to quit heroin? Did you know that when you were 15?

MR. McCONNELL: Objection to form.

- A. I'm not certain that I knew heroin existed at age 15 so I think the answer would be no.
- Q (By Mr. Gruenloh) Okay. Now, you're a fairly educated man, wouldn't you agree?
  - A d like to believe so.
- Quand in fact if we compared you to the general population of West Virginia, I would say you're probably in the total percent in terms of education, wouldn't you agree?
  - MR. McCONNELL: Objection to form.
- A haven't looked carefully at the breakdown of West Virginians who have attended post secondary institutions who have Ph.D.s. If that's the definition of education I wouldn't be able to agree.
- Q. (By Mr. Gruenloh) Wouldn't you agree that you're generally more educated than the West Virginia population as a whole?
- A. I suppose as a matter of, again, without knowing specifically that that's true, it would make

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sense that if you're defining educated as having a Ph.D., that would be true.

- Q. Okay. Do you think education plays a role in how informed one is with regard to the health risks of smoking cigarettes?
  - A. It's, it can play a role, yes.
- Q. Well, I believe in the past you testified that in fact education is either the second or third most important factor in determining one's knowledge of the health risks of smoking, isn't that correct?

education and all of the other influences, sources of information in that way. I may have put education sound a hird in a list of a substantial number of sources of information, sources that engender awareness.

come in terms of importance, one being informed about the health risks of smoking?

A. Well, my, I guess the way I would think about this or offer as a response to you would be to say as I've said in the past that if one thinking about the sources of awareness, the sources of that engender awareness that impinge upon an individual that those sources would begin within the family circle, begin at home, family members and then extend outward. And of

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course in America, one of the first experiences outside of the home, the immediate family environment is school, is schooling, is education.

So in that sense education becomes the next place and it is an important place because as has been, as I believe I have indicated in my affidavit, there was and has been much information about smoking provided through schooling, through education.

Q What year did you start studying the topic of smoking and health?

A n a formal sense 1996.

Q hat do you mean by formal sense, Doctor?

A Well, any person who is, who teaches courses in American history and has been teaching as I had since 1965 has to deal or does deal with issues of contemporary American history and so I tried to acquaint myself and through some reading with the issues before 1996.

Quito Did you specifically look into the topic of smoking and health before 1996 or is it your testimony that only through your position as a professional you looked at it prior to 1996?

A. My testimony would be the latter, only through my, principally through my position as an instructor in various courses that dealt with

11

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contemporary American history.

- Q. So in 1996 that's when you first started looking specifically at the subject of smoking and health?
  - A. That's correct.
- Q. And certainly you would agree that you're more educated now about the topic of smoking and health than you were when you started the research back in 1996?
  - A. I hope that's the case, yes.
  - And in fact, that is the case, isn't it,

Doctor?

- A. I believe that would be fair to state, yes.

  O Is it your testimony today that the residents

  of West Virginia fully understand and appreciate all of
  the health risks of smoking cigarettes?
- A. I'm not in a position to say that all of the residents of West Virginia fully understand the health risks. Position would be that the vast majority of residents of West Virginia have had enormous amount of information provided to them about the health risks and addictive propensities of smoking.
- Q. Well, is it the same thing, Doctor, in your opinion to have information provided to you in that regard, smoking and health? Is it the same thing to say

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that, as it would be to say they are fully informed of the smoking risks?

A. Well, we get into semantic issues here, what is meant by fully informed. In my view, in my opinion, and that is my opinion as a historian, not as a scientist and dealing with communication theory or whatever, reception of information, my opinion as a historian is that there has been so much information made available to people in West Virginia as there has been to Americans generally, that this leads to knowledge awareness, substantial significant awareness on their and that has been the case for a very long time.

Q ou have children, don't you, Doctor?

A I do.

Q How many?

A Two.

Q wouldn't you want your children to be fully informed of the risks of any product that they were going to use?

MR. McCONNELL: Objection to form.

- A. I have attempted to ensure that my children are fully informed insofar as I'm able to do so about products that they may use, yes.
  - Q. (By Mr. Gruenloh) Is it your testimony today

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that the residents of West Virginia are fully informed as to the addictive nature of cigarettes?

A. Well, we get into the same issue with regard to what fully informed means. My testimony is that for a very long time there has been information provided, very large amounts of information provided to the people of West Virginia about the addictive nature of smoking. That information comes, begins with the personal observation and personal experience, their personal observation and their personal experience.

opinion that the residents of West Virginia know everything that you know about the health risks of which wou sit here today?

I could not claim that to be the case.

Have you reviewed the third amended complaint

in this dese?

A. I have done so.

Have you reviewed any other documents?

A I was given along with the third amended complaint a couple of weeks ago the deposition of your person, Dr. Burns, David Burns, and also last evening I was given the depositions and interrogatories done very recently of the two named plaintiffs in the third amended complaint, Christa Blankenship and -- is it Mae

Sibo?

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- Q. The deposition of Dr. Burns that you reviewed was the one that was taken in this case?
  - A. That's my understanding.
- Q. Have you reviewed any other documents in preparation for this deposition?
- A. Well, I reviewed my affidavit, the affidavit that was submitted previously and all of the, or I attempted to review all of the relevant material that supported that affidavit.
- Q when you say all of the material that support at affidavit, are you referring to the information that you've cited in your report or are you referring to other information?
- The information that I cited but of course as I indicated in the affidavit the cited information is only a very small part of the totality of the material relative generally relative to these issues.
- Quantity the deposition of Dr. Burns and depos and interrogatories of Mae Sibo and Christa Blankenship and the materials we just discussed that are cited in your report, are there any other reliance materials that you have provided to your counsel or that you have used in order to form your opinion in this case?

15

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	Α.	I t	hink	tha	t's		I me	ean,	I	did	get	of	cour	se
materi	als r	ela	ting	to	the	McC	une	case	₽,	that	is	, tw	0	
compla	ints	ess	entia	ally	in	the	Mc	Cune	са	se,	if	that	is	
viewed	as p	art	of t	this	cas	se.								

- Q. The first complaint and the first amended complaint?
  - A. That's my recollection, yes.
- Q. All right. Are there any other documents that you referred to, Doctor, aside from what we've just discussed?
  - A ake me through that list again.
- The first amended, third amended complaint, first complaint, deposition of Dr. Burns in this case, depos and interrogatories of Mae Sibo and Christa Plankenship and of course the information that you reviewed and which is cited in your report.
- And in addition other information I would say as I indicated, other information that was not cited directly but which I have had or my research assistants have generated that is relevant, that is relevant to these issues.
- Q. Okay. Why don't we tie this up before we go on. Aside from all of that we just mentioned, have you provided your counsel with any other documents or has your counsel provided you with any other documents for

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your testimony in this case?

A. That's not taken care of in this, I do not recall any additional information.

MR. McCONNELL: Can we go off the record half a second?

(Discussion held off the record.)

- Q. (By Mr. Gruenloh) And Doctor, you've reviewed the expert report of Dr. Burns, not the deposition of Dr. Burns, is that correct?
  - A That is correct.
- O you know who Mae Sibo and Christa Blanken are?

A. Two individuals residing in West Virginia who are the named plaintiffs in this case.

On In fact are the putative class members in this case?

- A. accept the legal terminology.
- Have you met with Mae Sibo or Christa

Blanken ?

- A. I have not.
- $Q^{r}$ . And you said you just reviewed their depositions and interrogatories last evening?
  - A. Yes.
- Q. Okay. Prior to last evening, had you reviewed anything regarding Mae Sibo or Christa

17

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Blankenship	including	their	records	or	anything	else
about them?						

- A. No.
- Q. Have you conducted interviews of any other class members in this case?
  - A. No.
- Q. Have you conducted interviews of any West Virginia residents?
  - A No.
- Q. Have you reviewed any survey data concerning the number percentage of smokers in the state of West Virginia.
- A I do not recall having done so though I have seems seems theses that deal to some degree with that but I would have to say I do not recall having done so.
- Q ave you seen or reviewed any survey data regarding the smoking prevalence in the United States overall
- A. Yes, I think I have seen in the course of my research some of that kind of material, some of that kind of information.
- Q. Okay. As specifically as you're able, can you tell me in what context you reviewed that information?
  - A. My aim would have been to try to understand

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for contextural purposes, for background purposes who has been, who have been and who are smokers over time and so I've tried, my research assistants have gotten me some of that information.

- Q. Okay. So you've in fact relied upon demographic information is what you're telling me?
- A. Demographic information, information done again without being able to be very specific, done to try to see what groups within a particular, what age groups for example were smoking, prevalence of smoking and so for the contract of the

Quantum you tell me how you've relied upon that information?

A For the purpose of this affidavit, it's been, it's been principally as background information, does not come directly at this point at least, come directly in to be

Okay. Have you ever relied upon survey -this may be a bit broad so answer as best you're able -have you ever relied upon survey or demographic data for
any other purpose aside from your report in this case?

- A. I'm not certain that I know --
- Q. All right, let's limit it to survey or demographic data relating to smokers. Have you ever relied upon that sort of data aside from the context of

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your opinion in this case?

A. Well, my aim has been to seek to understand the sources of awareness over time about the health risks and addictive propensities of smoking. I suppose the answer, the best answer I can offer is that a. historian wants to know who is being, wants to know something about who is being influenced in a variety of ways over time. So I tried to gain a picture to create a picture for myself as contextural information. I'm not certain that's helpful but I hope it is.

Plaintiff's Exhibit No. 1

marked for identification.)

By Mr. Gruenloh) Doctor, I'm handing you so a marked as Exhibit 1. Incidently, before we see that you have before you a folder and a notebook lave you brought those with you to the deposition.

A brought this with me.

Q. Are there any notes or anything on that report that were not in --

- A. No.
- Q. And the notebook that is underneath there, does that contain any notes or have any information?
  - A. (Indicating.)

MR. McCONNELL: Just for the record it was

blank.

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- Q. (By Mr. Gruenloh) Is Exhibit 1 your report in this case?
- A. Yes, it is. It's my affidavit, yes, I guess that's the report affidavit, yes.
- Q. Was that report prepared specifically for this case, Doctor?
- A. Does this case encompass what I have referred to, what I we thought of as the McCune case?

When you prepared that report, did you start

- Q. Xes.
- A es, then it does.
- from scratch or did you start with a report that you had used in lior case and add on to that report?

  A I don't have a template but I have done as I've indicated in prior depositions to make clear, I have done research relating to other states and other cases and that information has been, was useful, was helpful in causing me to go forward with the research for this case that led to this affidavit.
- Q. Okay. So when you put pen to paper and started on your report for this case, you started with a blank sheet of paper, is that correct?
- A. I started with a blank sheet of paper, of course also being able to refer to what I had done

previously.

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- Q. Are there any drafts of that report?
- A. There are no drafts of this report.
- Q. Let's go back to the putative class members in this case for a moment, Mae Sibo and Christa .

  Blankenship. You said that you had not interviewed them or met with them or prior to last evening looked at anything regarding them, isn't that correct?
  - A That is correct.
- O. Do you have any information that would confirm that all of the things that you've set out in your research regarding the knowledge of the health risks of smoking are actually known by any resident of West Virginia?
- A. On the basis I can say as a first response, as a response on the basis of my quick review of the deposition given by, deposition given my Christa Blankenship that she referred to knowledge. She indicated that she had knowledge of a number of the, of several of the sources of information that I refer to in my affidavit.
- Q. Okay. What sources of information are you referring to?
- A. She knew about the Surgeon, as I recall correct, she knew about the Surgeon General's report in

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1964, for example.

- Q. Do you know whether -- you're referring to Mae Sibo or Christa Blankenship?
  - A. No, Christa Blankenship.
- Q. Do you know what Christa Blankenship said about the Surgeon General's report in 1964?
- A. I don't recall either way what she said about that.
- Q. Qkay. Were there any other sources of information that you recall?

A hat's the one that jumps out at me. Both, I think Christa Blankenship also acknowledged, I think I'm correct ecalling again on the basis of this rapid review Christa Blankenship acknowledges seeing the newspaper that she had, she read. I think the as the Charleston Daily Mail on various issues carding smoking, warnings about the dangers of smoking.

Q I take it that it's still your opinion that a wide rate of sources informed residents of West Virginia in particular about the claims of addictive and health threatening consequences of smoking, is that still your opinion here today, Doctor?

- A. It is.
- Q. And you're able to reach that conclusion

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without interviewing a single member of the West Virginia class, is that your testimony?

- A. I'm saying this information was available to all or almost all persons living in West Virginia at the time the information appeared, yes.
- Q. So the answer to my question is yes, you're able to reach that conclusion without in fact interviewing a single member of the class?

A. I'm comfortable about saying this information was generally available, yes.

you've been able to form your opinion without interviewing a single member of the class is yes, is that court?

A Yes.

o you have any plans to interview or meet with an of the class members in this case?

A. The methodology that I followed does not suggest that that would be desired or permitted at this point, we ful at this point.

Q. All right. Let's look at Exhibit 1 for a moment. I don't want to look at any specific paragraph right now but in paragraphs 3 through 33, you've set out all the information which you believe and I'm using your words, the American society and the public had access

to, correct?

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- A. I've set out in those paragraphs examples appropriate, what I deem to be appropriate examples of the range of information that Americans had about the health risks and addictive issues associated with. smoking.
- Q. Do you agree that the cigarette manufacturers, the defendants in this case, are in fact members of the American society and the public and thus they have the same information that you've set out in paragraph through 33 of your report?

A. I can't, I haven't interviewed members of the tobacco companies but I would acknowledge that people work tobacco companies are members of American

vould you have to interview members of the tobacco or employees of any cigarette company in order to reach that conclusion?

A. I was seeking to be ironic, not very usefull. No, I would not need to do so.

- Q. So you do agree that cigarette manufacturers are members of American society and the public and therefore they have the same information that the West Virginia residents have, isn't that correct?
  - A. That's correct.

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Q. Well, in fact since it was their product they probably had even more information about the health risks of smoking compared to the average West Virginian, wouldn't you agree with that, Doctor?

MR. McCONNELL: Objection to form.

- A. I have no basis for saying so other than the allegations to that effect that have been available for a very long time, yes.
- Q. By Mr. Gruenloh) Isn't that a logical conclusion since they're the manufacturer of the product and the lt with the product every day?

MR. McCONNELL: Same objection.

A T'm not certain that, and I don't know actually mugh about the industrial practices that existed to make that, reach that conclusion. People in my view times do produce things without thinking serious about what they're producing, opinion.

Q. (By Mr. Gruenloh) Doctor, wouldn't you agree that the head of research and development for Philip Morris probably knew more about the dangers of smoking than Mae Sibo or Christa Blankenship?

MR. McCONNELL: Objection to form.

- A. I have no basis for saying that. It would make reasonable sense to reach that conclusion, yes.
  - Q. (By Mr. Gruenloh) Can you tell me, Doctor,

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what conclusion did you reach from reviewing all of the information which you've cited in between paragraphs 3 and 33 of your report?

- A. My conclusion was and is that there has been available to Americans in general and to people in West Virginia in particular an enormous amount of information and -- about the risks of smoking and the addictive qualities of smoking and that has in my view engendered widespread awareness of these issues.
  - O. Awareness of what issues?

A of the issues that we've been discussing, that is that smoking is dangerous to one's health and that it is addictive as commonly understood, as that term was commonly understood.

Am I correct that in paragraphs 3 through 33 you have not included a single example of the tobacco industry public statement by any cigarette manufacturer coming out and saying yes, our products are harmful, es, they are addictive?

A. My recollection is that I have not done so.

I think you're correct in making that statement. I

would have to review this again very carefully but I

believe you're correct.

Q. At paragraph 3 and again at paragraph 33 you indicate that there are many examples of how the public

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was informed which did not get included in your report, isn't that correct, Doctor?

- Α. That's correct.
- And in all of those many examples which did not get included, are there any statements by cigarette manufacturers that say yes, our product is harmful to the health, yes, it is addictive?
  - Statements by cigarette manufacturers?
  - ‱¥es, sir.
- At is not, I do not recall seeing until very, very recently statements by cigarette -- in public, that is, that have been made known publicly, statements by cigaret mpany representatives that specifically say those things.
- and you haven't included in this report, Exhibit ny of the thousands of public statements that cigarette manufacturers have made denying that their products are harmful to the health and that they are addictive, have you?
  - MR. McCONNELL: Objection to form.
- I have not. That does not imply that I have Α. not seen or have knowledge of their existence but I have not cited them in this report.
- (By Mr. Gruenloh) Well, you've certainly come across those public statements on behalf of the

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industry made by the industry that, denying cigarettes are harmful, haven't you?

- A. I have seen statements over a considerable length of time that raise questions about the addictive nature of smoking and also as defined at the time and also about the health risks claimed to be associated with smoking, yes.
- Q. What do you mean by statements which raise questions about the health risks of smoking?
- A. Well, I mean, for example in the 1950s, there was what the perceived to be a controversy about whether smoking was in fact a cause and whether there was a causal relationship between smoking and lung cancer and there was scientists who said yes, there is clearly a causal relationship. Some scientists said no, there is no prove causal relationship. Representatives, spokespe ons for the tobacco companies when they addressed that issue, when that issue was addressed tended to be on the side of not proven in terms of that controversy.
- Q. Okay. We'll come back to that in just a moment but let me ask you, am I correct that you have not included in your report a single example of any cigarette manufacturers, public statement denying the harmful effects of cigarette smoking?

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- A. As I said earlier, my recollection is I did not in this affidavit.
- Q. And yet you have come across them in the course of your research, isn't that correct, sir?
  - A. I have come across them, yes.
- Q. Well, do you agree that the tobacco industry attempted to shape the common knowledge of the American public with regard to the health risks of smoking?

MR. McCONNELL: Objection to form.

A My response I think is that on the basis of my research in terms of popular awareness, there is evidence of efforts by spokespersons for the tobacco companies tobacco industry, I suppose, seeking to shape public mess. I would say in carrying on, that in my sudgment those efforts were relatively less numerous and also very effective.

Q (By Mr. Gruenloh) Well, my next question was going to be what effect do they have but . . .

A. Well, I was hoping -- my opinion was that, is that based upon work as a historian for many years that people do not necessarily trust claims offered by the manufacturers of products about the benefits of those, alleged benefits of those products. And therefore that's because there is awareness on the part, very clear awareness on the part of the consumer that self

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interest is involved. Whereas statements that do not appear to be self interested, statements by family members, physicians, school teachers, public health advocates are taken with more seriousness. That is a view that I hold and I believe there is reasonable support for that view.

Q. Is it your testimony today that the tobacco industry was not effective in influencing the knowledge of the American public with regard to the dangers of smoking and health?

think that would be my testimony, yes.

O. Have you done any analysis where you have compared the statements that the industry has made with recard to the smoking controversy that you talked to me about a little while ago?

What sort of analysis?

Have you made any effort to collect all of the public statements of the tobacco industry where they've denied that cigarettes are harmful to people's health?

A. My research has sought to be comprehensive with regard to the public statements on these issues, public information made available about these issues. So I have, I wouldn't claim it to be an absolutely complete set of documentation of the type that I have

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available to me relating to public utterances and public efforts by tobacco companies. I have not done -- or maybe I'm giving you the next follow-up question -- I haven't done in a formal way a quantitative evaluation, that is, putting those kind of utterances against all of the other utterances. My strong, as I indicated in previous depositions, my very convinced opinion is that the utterances of this type by the, on the tobacco companies side in terms of shaping, seeking to shape public opinion do not amount nearly to as high as big a pile so peak as the other side.

Q But you haven't done that analysis?

A I haven't done that analysis in terms of

saking up. I said in the past, using the example

of the Atlantic Ocean, in previous depositions. I could
do that . . .

Q In other words, in your report what you've done is you've set out all of what you believe to be the information out in the public about the harmful nature of tobacce but you haven't compared that to the statements made by the tobacco industry denying that, isn't that correct?

MR. McCONNELL: Objection to form.

A. I haven't done that in the affidavit. I have done that I would say intellectually in the process of

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reaching the conclusions that I offer in the affidavit.

I have not -- well, I think that is appropriate.

Q. (By Mr. Gruenloh) When you say you've done it intellectually, in order to do it intellectually, you have to look at all of those tobacco industry denials, the harmful effects of smoking, don't you?

MR. McCONNELL: Objection to form.

- A. I would agree that as they have been a part of all of his universe of information, I have looked at them and taken them into account.
- Q. (By Mr. Gruenloh) Okay. And yet you haven't cited any of those documents in your report, isn't that correct
  - That's correct.
- po you still have the documents that you're referring to, the cigarette manufacturers' public statements in your possession?
- nature, for much of the period that I deal with they're in the tree of a commentary on or a rebuttal to some story about a new discovery or an analysis of the dangers of smoking so yes.
  - Q. Take five minutes right now? (Break in proceedings.)
  - Q. (By Mr. Gruenloh) Doctor, if a product is

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worse for you than you thought it was, wouldn't you want the manufacturer to tell you about it?

MR. McCONNELL: Objection to form.

- A. I'm not certain that I can follow that. Will you take me through it again?
- Q. (By Mr. Gruenloh) Yeah, sure. If you're a current user of a product and you know that it's bad for you but you don't know how it's bad for you, how bad it is for you. I'm sorry, wouldn't you want the manufacturer of that product to let you know about it?

  R. McCONNELL: Same objection.

A I suppose my response would be that if I were a user of a product and I knew it was bad for me but it was a large product, I would understand, have some understanding of the corporate circumstances that would lead to manufacturer of that product not providing information. In an ideal world, I suppose I would have, would want that information to be available were I to believe what the manufacturer were saying in general. I don't know where that one went.

Q. (By Mr. Gruenloh) Now, earlier you said you did an intellectual analysis where you weighed what was out there about the dangers of cigarette smoking versus the tobacco industry denials of the dangers of tobacco, isn't that correct?

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- A. That's correct.
- Q. Okay. In the course of that intellectual analysis, did you review -- strike that. Do you know what the marketing budget for Philip Morris was in 1960?
  - A. I couldn't say with any specificity.
- Q. Do you know what the marketing budget for Philip Morris was in 1970?
  - A. I couldn't say with any specificity.
  - Q. Same question, 1980?
  - A Same response.
- Q e also a little earlier talked about the smoking and health controversy.
  - A Yes.
- Quitan you again tell me what your definition of smoking and health controversy is, what your understanding of that is?

A My understanding of what happened was that as scientists researchers increasingly found statistical correlations between smoking and lung cancer and as some scientists were beginning to find evidence of possible experimental links though not conclusive experimental links between tobacco, tars and so forth, I'm thinking here of the Evarts Graham, Ernest Wynder experiments here at Washington University at St. Louis, as that kind of information was coming forward, other than scientists

35

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statisticians disputed that view saying that lung cancer might well have been the result, might well be the result of an increasingly open eyed society and smog and atomic testing and all kinds of other things so that there was for a period of time. My understanding is based upon the portrayal of what happened, there was for a period of time a legitimate controversy in terms of whether there was a proven causal link.

Q. Do you remember at the beginning of this deposition I asked if you believe smoking causes cancer and you eved smoking is addictive and you told me yes, you believe it does cause cancer and it is addictive?

A Yes.

Q Do you believe there is a smoking and health controver today as we sit here in this room?

MR. McCONNELL: Objection to form.

A. My belief is there is not a smoking and health controversy.

Q. (By Mr. Gruenloh) When we first talked about the smoking and health controversy a moment ago, I think you mentioned the year 1950. Is it your understanding that the smoking and health controversy started in 1950?

A. Well, there were people, there was some scientific evidence even before World War II that, of a

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statistical relationship that -- there is the work of Raymond Purle who is a well known statistician at Johns Hopkins who identified, correlated smoking and increased risk of mortality, not lung cancer specifically. So even earlier that is but I think 1950 would seem to me to be -- 1949, 1950, appropriate kind of date.

- Q. Do you believe that there was a controversy between smoking and health in the 1960s?
- A. think the controversy extended into the 1960s, wes.
- Q you believe there was also a controversy between smoking and health in the 1970s?
- A y opinion based on the information I have is the troversy effectively had ended by the mid to
  - Q bout '68, '69?
- A I wouldn't be able to pin down. I probably could offer a judgment but I wouldn't be able to offer a useful judgment right now.
- Q But it's your testimony by the mid to late 60s the smoking and health controversy had in fact ended?
- A. For the majority of people who were considering thinking about these kinds of issues, yes.
  - Q. What do you mean by that?

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Q. And if there were a rip-roaring controversy on the isame of smoking and health, how would that affect the common knowledge of the general public as to the dangers of smoking?

A My opinion and I believe it is supported by substant evidence is that with regard to this issue, the public generally anticipated or the public's view in advance of the scientific position, that is, that American for a period even before the 1950s as a general motion understood that if you draw hot smoke into your lungs with various kinds of particulates in that smoke, that some nasty things may well happen to you.

- Q. Do you believe that the public knew that smoking could cause cancer before Dr. Wynder did?
- A. The public's, the public's understanding of cancer, I think it's demonstrable, was extremely vague and amorphous. In fact, if you were my age, you would

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recall that cancer tended to be mentioned in whispered tones because there was so little grasp of what it was, what the mechanisms were and so forth in the 1940s for example, when I was a child. So I would say, again I guess this long winded response to your question is that the public's understanding that there's a connection to cancer would not necessarily have been in advance but the public's viewed popular awareness that there were negative medical negative health consequences to smoking of various sorts did exist.

Q. Are you aware that the cigarette manufacturers embraced the smoking and health controvers and did their best to engender that dom:rovers in the minds of smokers?

R. McCONNELL: Objection to form.

'm aware of allegations to that effect, yes.

(By Mr. Gruenloh) Do you believe that they

did that, Doctor, or do you know?

haven't the documents from the tobacco manufacturers that would say yea or nay.

Q. Well, would it affect your opinion if you found out that that tobacco industry did in fact help engender the smoking and health issues and did provide a crutch to lean on so to speak?

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MR. McCONNELL: Objection to form.

A. If that were the case and I'd be willing to entertain the hypothesis, I think my response is that I do not believe it would have had a substantial effect. People made decisions about continuing to smoke for reasons, for a variety of reasons. Individuals made decisions for a very large number of reasons to continue to smoke and my sense is that justifying that in terms of being reassured by, as you suggest, the tobacco companies would not be a substantial or significant element.

Q Would it affect your opinion in any way,

Doctor, you found out that the tobacco industry had

seent miner of dollars or programs which were

specifically directed to underaged smokers, smokers

under the age of 18 years -- I'm sorry, consumers under

the age of 18 years?

mean, my opinion is that there is, was widespread general arareness about these dangers and risks, you're saying that there were -- are you saying I guess I would ask, that there were, there is absolutely demonstrable evidence that the tobacco companies were telling smokers, consumers, under the age of 18 that there were no dangers?

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Q. Let's assume for a moment that they did in fact have a marketing campaign where they spent millions of dollars in marketing monies on programs which were directed at underaged consumers. Okay. Let's assume that for a moment. Would that affect the opinions that you've given in this case in any way?

MR. McCONNELL: Objection to the incomplete hypothetical.

A. If I can follow, if I do follow what your hypothetical is, I think my response is no. My sense is, was is that people chose, decided to begin smoking at I did as an act of adolescent rebellion and whatever -- I mean, I wouldn't say all people did that but that whitever would make that seem to be, whatever would be claimed by the tobacco companies, that would make that wen riskier. Might well be, I mean, it wouldn't affect their awareness, I guess I'm trying to say. It wouldn't affect their decisions.

Q. (By Mr. Gruenloh) Do you have any basis for that opinion, Doctor?

A. Personal experience and I do recall Christa Blankenship if I'm saying this correctly at age 16 saying that she decided to begin smoking because she felt that it relieved stress and she got this from her friends and she was going to do it because she was

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unhappy and that's what she wanted to do. I mean, that's not an unusual response.

- Q. And again you don't know how much money Philip Morris spent in any year on any of their marketing campaigns, do you?
  - A. As I say, not with specificity.
  - Q. Would you mark this as Exhibit No. 2.

    (Plaintiff's Exhibit No. 2

marked for identification.)

what's been marked as Plaintiff's Exhibit No. 2, the 1971 Special Executive Report of the Tobacco Institute. If you turn to the second page of Exhibit No. 2 and under the heading Special Executive Report,

incidentally this is from the desk of William Kloepfer,

Vice President of the Public Relations of the Tobacco
Institute It reads and I quote, on December 1st, 1970
the Tobacco Institute published an advertisement in the New York Daily News, the New York Times and the

Washing Post entitled the question about smoking and health is still a question. Do you see that, Doctor?

- A. I do.
- Q. Do you agree with that statement that as of February of 1971 that the question about smoking and health was still a question?

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- A. My opinion as a historian looking back at the information I have is that this is not, it may have been a question to them but if they're referring to is it still a question to the scientific community, no.
- Q. So is it your opinion that the Tobacco.

  Institute was trying to engender a controversy that wasn't there?

MR. McCONNELL: Objection to form.

Institute was seeking to do other than as stated in this. On the third page they say we mean what we say about our commitment to honest scientific research to help answer the question bout tobacco. Well, they're obviously arguing that a question still existed. Whether what their makes for doing so were, I can't say.

OBY Mr. Gruenloh) Look at the third page in the document and the next sentence reads I can assure you -- again this is from the desk of Horace Kornegay -- I can assure you no amount of carelessness about the facts for which some of the anti-tobacco forces are responsible is going to put us off course in seeking the truth which is the only way to resolve the continuing smoking and health controversy.

So Doctor, do you believe there is a

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continuing smoking and health controversy as of December 15th, 1970, the date of this letter?

- A. For the scientific community and for the public in general, I do not believe that that was, that there was a continuing smoking and health controversy.
- Q. So Mr. Kornegay then here in this letter is saying something that's in conflict with the scientific community at that time, isn't that correct, sir?
  - A. That would appear to be the conclusion.

A This is a statement or advertisement I suppose reprinted from the Washington Post and it says over new pers dated December 1st, 1970. It offers a position. Title is, is the question about smoking and health a question. And it is, it's made clear that the as it says these facts and statements are presented by the Tobacco Institute.

MR. McCONNELL: Ted, if you want to take a second to go ahead and read it, go ahead.

A. Yeah.

(Witness complies.)

Q. (By Mr. Gruenloh) You're welcome to read it, Doctor, but I'm not going to ask you any specific questions about it.

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- A. Okay, fine. I skimmed it.
- Q. In your intellectual analysis that you did where you weighed the denials of the tobacco industry on one hand versus the information that was out there and the public knowledge on the other hand, did you consider that document?
- A. My recollection is that I did see this document in this form, yes, or some such form, yes.
- Q. Did you consider the letter that we went over just a moment ago from Mr. Kornegay?
- A. I did not because I did, I had not seen that.
- Q. kay. And you said you still have all of the meterial that you considered when you did this analysis, isn't that correct, sir?
  - A. nat's correct.
- Q. Okay. So if we looked at those materials, we would find that document or some form of that document?
  - A. Some form of that document, right.
- Q. None of the materials that we've just gone over in Exhibit No. 2 are included in your report, isn't that correct, sir?
  - A. That's correct.
- Q. Give me just one moment. If you could turn back to the ad which I believe is the fourth page of

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Exhibit 2. I do have one or to questions for you. Have you scanned this document?

- A. I have.
- Q. Okay. The first paragraph reads for the past two decades hundreds of scientists have performed. thousands of experiments and written millions of words in a dedicated effort to explore the question of smoking and health. Result, so far in spite of this massive effort the are eminent scientists who question whether any causal relationship has been proved between cigarette smoking and human disease, including lung cancer, conary heart disease or emphysema. They believe the years more of exhaustive investigation will the required to clear up what is indeed now a muddy presure you see that, sir?

on you agree with the characterization at the end of that paragraph, that the question about smoking and health was still a muddy picture in 1970 when this article published?

MR. McCONNELL: Objection to form.

A. My opinion and I'm not, I wouldn't claim to be an expert on all of these, on all of these kinds of issues, my opinion is that there might still be some silt in the water but I would not characterize this as a

muddy picture.

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Q. (By Mr. Gruenloh) Well, I think you testified earlier in fact that the question was settled by 1970, didn't you?

A. But what I'm trying to say is that in fact, the first sentence in that paragraph, there were some eminent scientists, not very many but some eminent scientists who were questioning the causal relationship. As I said earlier, I believe, my view is that for the scientific community in general that the issue has been settled.

Will you please mark this Exhibit No. 3.

Plaintiff's Exhibit No. 3

Warked for identification.)

What has been marked as Exhibit No. 3 to the deposition. It's dated December 28th, 1963. It's entitled A Frank Statement to the Public by the Makers of Cigarettes.

misstated when you gave the date.

MR. GRUENLOH: Is it '53? I thought it was '63.

MR. McCONNELL: '53.

MR. GRUENLOH: I'm sorry, you're right.

47

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- A. I'm generally familiar with this, yes.
- Q. (By Mr. Gruenloh) Okay. If you look at the bottom of the first page of that document, the last sentence on the first page reads we believe the products we make are not injurious to health. Do you see that, sir?
  - A. Yes.
- Q. Now, neither this document nor that statement appeared your report, isn't that correct?
  - A That's correct.
- forming forming that consider that statement when you were forming forming that the residents of West Virginia are informal about the health risks of smoking?
- materials that you looked at in your intellectual analysis would that be in that stack of materials, that document?

This document would be in it, I mean in its publish orm, that is, as a statement and announcement in one or several newspapers.

- Q. Can we take five more minutes?

  MR. McCONNELL: Absolutely.

  (Break in proceedings.)
- Q. (By Mr. Gruenloh) Let's take a step back for

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a second. Can you tell me what the cigarette manufacturers' current position as we sit here today is on whether cigarettes are injurious to the health?

- A. Historians tend to live in the past but my recollection is that both Brown and Williamson and Philip Morris have acknowledged formally, publicly that there is a direct relationship between smoking and various diseases.
- Q kay. Do you know what the current position is of any of the cigarette manufacturers, the cigarette manufacturers which are defendants in this case on whether citarettes cause cancer?
  - A can't, I can't speak to that precisely.
  - Q ou don't know?
    - A don't know in a precise way, no.
      - Q. ave you made any attempt to find out?
- A Only by trying to follow these issues via reports on the Internet and so forth, newspapers. But I'm not certain that I can say with certainty that any cigarette mpany has said it does cause cancer. Maybe they have.
- Q. Do you know what their position was on that issue back in the 1960s?
  - A. Not proven.
  - Q. The case as to whether cigarettes cause

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cancer	is	not	proven?
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- A. I think that's it.
- Q. Do you know what their position was on that issue back in the 1970s?
- A. I think the same response would be correct, not proven.
- Q. Okay. Do you know what their position was on that issue in the 1980s?
- A believe that, the same response was not proven.
- Q. Do you have any reason to believe that that is not how position today?
- A. My, as I said earlier, my recollection is that there has been a change in terms of the acknowledgment of some causal relationship but I'm not absolutely, I couldn't be absolutely certain about that.
  - Okay. Is it your opinion today that the residents of West Virginia fully appreciate and understable the risks of addiction to cigarettes?

    Ale (es.
    - Q. What do you base your opinion on?
  - A. On the historical research that I have undertaken regarding the range of information available about addiction as it was generally accepted.
    - Q. So everybody knows that cigarettes are

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addictive, is that your testimony?

- A. Certainly that would be a general view, yes. I wouldn't say -- everybody means everybody so I'm not able to say absolutely everybody but the vast majority, yes.
- Q. We may have gone over this earlier but -- and I apologize if we did but can you tell me if you have a working definition of addiction?

A. We did go over it and I provided, my working definition is, equates to dependency, the need to engender or to obtain further gratification, compulsive, sort of the list we habit.

Q. have you read the 1988 Surgeon General's

- A have done so.
  - Q. What was the subject of that report?
  - A. That was about, dealt with addiction.
- Q. Do you know whether that report presents an opinion thether smokers fully appreciate the addictive mature of cigarettes?
- A. I would not be able right now to say that it does. I'm not absolutely confident about what was stated with regard to the view of general understanding about addiction.
  - Q. Well, in that report there was an analysis

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done that compared the relapse rates of people who were trying to quit smoking to the relapse rates of people who were trying to quit heroin and it found that the relapse rates were similar, almost identical. Is it your testimony today that the residents of West Virginia are aware of that information?

MR. McCONNELL: Objection to form.

- A. I would say it is not my testimony that all residents West Virginia are aware of that observation that point. I couldn't say that.
- Q. By Mr. Gruenloh) Don't you think it's important to know that it's just as hard to quit cigaret sit is to quit heroin?
  - R. McCONNELL: Objection to form.

A T think that point has been made in the public and it was emphasized certainly at the time of the lease of the Surgeon General's report, that point as I now recall it. What I'm trying to say is I wouldn't be able to say that all West Virginians knew that. I would think that the majority of them were given that kind of information.

Q. (By Mr. Gruenloh) If we go back and look at a slice of time, the year 1960, and compare the knowledge of the public as to the health risks of smoking at that time in 1960, compare that to present

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day, wouldn't you agree that people know more today about the health risks of smoking than they did in 1960?

- A. I would agree that they know more today.
- Q. Have you done any analysis where you've compared the smoking prevalence in the United States in the year 1960 to the smoking prevalence of today?
  - A. I've not done formal analysis of that.
- Q. As we sit here today do you know whether a larger permittage of Americans smoked in 1960 or a larger percentage smoke today, 2000?
- A. My strong recollection is that more people smoked 1260 than smoke today as a percentage.
- Q n the course of reviewing your report I didn't see any references to any specific brands of Did I miss that or did you make any references?
- A did not make any references to specific brands.
- Q por the purposes of your opinion in this report, it matter whether somebody smoked Marlboros or Winstons or any other cigarettes?
- A. As a report relating to awareness of this kind, my view was it did not matter whether a person smoked one brand or another.
  - Q. What was the last case in which you testified

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where the central issue to the case was tobacco?

- A. The last deposition that I gave, you said testified. That is, I've not --
- Q. I'm sorry. Let me rephrase my question. Which was the last case in which you gave a deposition where tobacco was the central issue in the case?
- A. The last deposition I gave was the Thompson case in Minnesota that was cross noticed with the Clay case in Illinois.
- Q Okay. And was your opinion in that case similar to our opinion in this case, that is, that the public is tully informed -- I'm sorry, aware of the health is of smoking?
- A ased upon my research relating to those two the opinion was essentially the same.
  - Q kay. Did you testify at trial in that case?
- Q. have you ever testified at trial in the trial of any case where tobacco was the central issue in the case?
  - A. No.
- Q. Has any court ever recognized you as an expert specifically on the public's common knowledge of the health risks of tobacco?
  - A. I don't know how I would answer that

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question. I mean --

- Q. Have you ever given testimony in a trial and your attorneys presented you as an expert on that issue and the court in fact recognized you as an expert on that issue?
  - A. No.
- Q. Give me just a second to review my materials. That might be it.

(Off the record.)

Om By Mr. Gruenloh) Do you know who

Dr. Workman is?

A I'm not certain I can say.

Q ave you reviewed the report of Dr. Workman?

A. don't recall.

Q ave you reviewed the reports of any other experts this case aside from Dr. Burns?

A NO.

Q. And when you talked to me before about the intellectual analysis that you did where you compared what's there in the public domain versus the denials that were made by the tobacco industry, the body of information which I'm calling the denials which were made by the tobacco industry, if I were to request that, is that in a file of yours? How would I identify that?

A. It's interspersed with the other material.

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It can be pulled out, I mean, I can identify those documents that I would consider to be statements from the tobacco industry or spokesperson about this issue of denial not proven, whatever, I can do that.

MR. GRUENLOH: Okay, no further questions.

A. Thank you very much.

MR. McCONNELL: We're done.

DEPOSITION ADJOURNED.

56

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CERTIFICATION

I, SHERRIE L. MERZ, Certified Shorthand Reporter, Registered Diplomate Reporter and Notary Public, DO HEREBY CERTIFY that pursuant to notice/agreement between the parties, the aforementioned witness came before me at the time and place hereinbefore mentioned, and having been duly sworn to tell the whole truth of his knowledge touching upon the matter in controversy aforesaid; that he was examined on that date and in that behalf aforesaid and his examination was taken in shorthand and later educed to printing; that signature by the witness is not waived and said deposition is herewith

IN WITNESS WHEREOF, I have hereunto subscribed my name this let day of May, 2000.

returned to Ness, Motley, Loadholt, Richardson & Poole

Sherre I Mery

SHERRIE L. MERZ, CSR, RDR

57

filing with the Court.

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